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February 2, 2012

**SUPERFUND DIVISION**

Mr. Jason Gunter  
Remedial Project Manager  
U.S. Environmental Protection Agency  
Region 7 - Superfund Branch  
901 North 5<sup>th</sup> Street  
Kansas City, KS 66101

**Re: The Doe Run Company - Leadwood Mine Tailings Site Monthly Progress Report**

Dear Mr. Gunter:

As required by Article VI, Section 50 of the Unilateral Administrative Order (Docket No. CERCLA-07-2006-0272) for the referenced project and on behalf of The Doe Run Company, the progress report for the period December 1, 2011 through December 31, 2011 is enclosed. If you have any questions or comments, please call me at 573-638-5020 or Mark Nations at 573-518-0800.

Sincerely,

A handwritten signature in black ink, appearing to read "Ty L. Morris", with a stylized flourish at the end.

Ty L. Morris, P.E., R.G.  
Vice President

TLM/jms

Enclosures

c: Mark Nations – TDRC  
Matt Wohl – TDRC (electronic only)  
Steve Batts – TDRC (electronic only)  
Kathy Rangen – MDNR  
Tim Skoglund – Barr Engineering

40385924



Superfund

**Leadwood Mine Tailings Site**  
Leadwood, Missouri  
**Removal Action - Monthly Progress Report**  
Period: December 1, 2011 – December 31, 2011

**1. Actions Performed or Completed This Period:**

- a. Work continued on the task of demobilizing earthmoving and ancillary equipment from the site. As of the end of the period, work on this task continued.

**2. Data and Results Received This Period:**

- a. During this period, water samples were collected from downstream of Leadwood Dam and the East Seep and Erosion Area, as well as from upstream and downstream of the confluence of Eaton Creek with Big River. The analytical results for this event are included with this progress report.
- b. During this period, the Ambient Air Monitoring Report for third quarter 2011 and October 2011 were received. Any issues identified in these reports are discussed below. A copy of these documents has been sent to your attention.

The third quarter 2011 Ambient Air Monitoring Report noted the following:

- The action levels for lead and dust were not exceeded.
- No samples were taken with the TSP monitors on 7/4/11 due to the holiday.
- No samples were taken with the TSP monitors on 7/18/11 and 7/19/11 due to the entire crew being in training.
- There was a QA blank filter associated with the National #1 (Wortham Road) TSP and PM<sub>10</sub> monitors on 8/29/11.
- No samples were taken with the TSP monitors on 9/5/11 due to the holiday.
- No samples were taken with the Leadwood #1 (Wortham Road) PM<sub>10</sub> monitor on 9/15/11 due to mechanical issues.
- There was a QA blank filter associated with the Leadwood #3 (School) TSP and PM<sub>10</sub> monitors on 9/28/11.

The October 2011 Ambient Air Monitoring Report noted the following:

- The action levels for lead and dust were not exceeded.
- No samples were taken with the TSP monitors on 10/20/11 due to training.

**3. Scheduled Activities not Completed This Period:**

- a. None.

**4. Planned Activities for Next Period:**

- a. Continue vegetation maintenance activities. The use of biosolids will only be continued if a biosolids management plan has been submitted to and approved by EPA.
- b. It is anticipated that EPA will use this site as a soil repository in the future. Preparations for these activities will begin next period.
- c. Complete monthly water sampling activities as described in the Removal Action Work Plan.
- d. Complete air monitoring activities as described in the Removal Action Work Plan.

**5. Changes in Personnel:**

- a. None.

**6. Issues or Problems Arising This Period:**

- a. None.

**7. Resolution of Issues or Problems Arising This Period:**

- a. None.

**End of Monthly Progress Report**

December 28, 2011

Allison Olds  
Barr Engineering Company  
1001 Diamond Ridge  
Suite 1100  
Jefferson City, MO 65109  
TEL: (573) 638-5007  
FAX: (573) 638-5001



**RE:** Leadwood MTS-25/86-0013

**WorkOrder:** 11120952

Dear Allison Olds:

TEKLAB, INC received 5 samples on 12/21/2011 10:00:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Michael L. Austin  
Project Manager  
(618)344-1004 ex 16  
MAustin@teklabinc.com



## Report Contents

<http://www.teklabin.com/>

**Client:** Barr Engineering Company

**Work Order:** 11120952

**Client Project:** Leadwood MTS-25/86-0013

**Report Date:** 28-Dec-11

**This reporting package includes the following:**

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**Client:** Barr Engineering Company**Work Order:** 11120952**Client Project:** Leadwood MTS-25/86-0013**Report Date:** 28-Dec-11**Abbr Definition**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DNI** Did not ignite
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH** IL Dept. of Public Health
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).
- LCSD** Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MB** Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
- MDL** Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
- MW** Molecular weight
- ND** Not Detected at the Reporting Limit
- NELAP** NELAP Accredited
- PQL** Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
- Surr** Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
- TNTC** Too numerous to count ( > 200 CFU )

**Qualifiers**

- |  |   |
|--|---|
| # - Unknown hydrocarbon                                | B - Analyte detected in associated Method Blank |
| E - Value above quantitation range                     | H - Holding times exceeded                      |
| M - Manual Integration used to determine area response | ND - Not Detected at the Reporting Limit        |
| R - RPD outside accepted recovery limits               | S - Spike Recovery outside recovery limits      |
| X - Value exceeds Maximum Contaminant Level            |   |



## Case Narrative

<http://www.teklabinc.com/>

Client: Barr Engineering Company

Work Order: 11120952

Client Project: Leadwood MTS-25/86-0013

Report Date: 28-Dec-11

Cooler Receipt Temp: 3.4 °C

### Locations and Accreditations

Collinsville		Springfield		Kansas City	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	Address	3920 Pintail Dr Springfield, IL 62711-9415	Address	8421 Nieman Road Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	kmcclain@teklabinc.com	Email	dthompson@teklabinc.com

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2012	Collinsville
Kansas	KDHE	E-10374	NELAP	1/31/2012	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2012	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2012	Springfield
Arkansas	ADEQ	88-0966		3/14/2012	Collinsville
Illinois	IDPH	17584		4/30/2012	Collinsville
Kentucky	UST	0073		5/26/2012	Collinsville
Missouri	MDNR	00930		4/13/2013	Collinsville
Oklahoma	ODEQ	9978		8/31/2012	Collinsville

Client: Barr Engineering Company  
 Client Project: Leadwood MTS-25/86-0013  
 Lab ID: 11120952-001  
 Matrix: AQUEOUS

Work Order: 11120952  
 Report Date: 28-Dec-11

Client Sample ID: LW-001

Collection Date: 12/20/2011 7:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 375.2 REV 2.0 1993 (TOTAL)</b>								
Sulfate	NELAP	75		262	mg/L	1	12/22/2011 20:03	R158102
<b>STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED</b>								
Lab pH	NELAP	1.00		7.93		1	12/21/2011 16:33	R158038
<b>STANDARD METHODS 18TH ED. 2340 C</b>								
Hardness, as ( CaCO <sub>3</sub> )	NELAP	5		440	mg/L	1	12/22/2011 6:45	R158019
<b>STANDARD METHODS 18TH ED. 2540 D</b>								
Total Suspended Solids	NELAP	6	R	< 6	mg/L	1	12/21/2011 13:40	R158073
% RPD was outside the QC limits due to low level results. When duplicate results for TSS are 20 mg/L or less and have a difference of no greater than the PQL, the results are considered within the precision of the test method and are reportable.								
<b>STANDARD METHODS 18TH ED. 2540 F</b>								
Solids, Settleable	NELAP	0.1		< 0.1	ml/L	1	12/21/2011 13:50	R158035
<b>STANDARD METHODS 18TH ED. 5310 C, ORGANIC CARBON</b>								
Total Organic Carbon (TOC)	NELAP	1.0		5.5	mg/L	1	12/23/2011 8:07	R158167
<b>EPA 600 4.1.1, 200.7R4.4, METALS BY ICP (DISSOLVED)</b>								
Cadmium	NELAP	2.00		2.40	µg/L	1	12/22/2011 17:28	73820
Zinc	NELAP	10.0		2090	µg/L	1	12/22/2011 17:28	73820
<b>EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)</b>								
Cadmium	NELAP	2.00		2.70	µg/L	1	12/22/2011 21:32	73829
Zinc	NELAP	10.0		2110	µg/L	1	12/22/2011 21:32	73829
<b>STANDARD METHODS 18TH ED. 3030 B, 3113 B, METALS BY GFAA (DISSOLVED)</b>								
Lead	NELAP	2.00	X	5.06	µg/L	1	12/22/2011 15:45	73810
<b>STANDARD METHODS 18TH ED. 3030 E, 3113 B, METALS BY GFAA</b>								
Lead	NELAP	4.00	X	18.0	µg/L	2	12/23/2011 11:43	73807

# Laboratory Results

<http://www.teklabinc.com/>

Client: Barr Engineering Company  
 Client Project: Leadwood MTS-25/86-0013  
 Lab ID: 11120952-002  
 Matrix: AQUEOUS

Work Order: 11120952  
 Report Date: 28-Dec-11

Client Sample ID: LW-002

Collection Date: 12/20/2011 9:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 375.2 REV 2.0 1993 (TOTAL)</b>								
Sulfate	NELAP	150		375	mg/L	2	12/22/2011 15:30	R158102
<b>STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED</b>								
Lab pH	NELAP	1.00		7.80		1	12/21/2011 16:35	R158038
<b>STANDARD METHODS 18TH ED. 2340 C</b>								
Hardness, as ( CaCO <sub>3</sub> )	NELAP	5		600	mg/L	1	12/22/2011 6:45	R158019
<b>STANDARD METHODS 18TH ED. 2540 D</b>								
Total Suspended Solids	NELAP	6		< 6	mg/L	1	12/21/2011 13:48	R158073
<b>STANDARD METHODS 18TH ED. 2540 F</b>								
Solids, Settleable	NELAP	0.1		< 0.1	ml/L	1	12/21/2011 13:50	R158035
<b>STANDARD METHODS 18TH ED. 5310 C, ORGANIC CARBON</b>								
Total Organic Carbon (TOC)	NELAP	1.0		3.6	mg/L	1	12/23/2011 8:07	R158167
<b>EPA 600 4.1.1, 200.7R4.4, METALS BY ICP (DISSOLVED)</b>								
Cadmium	NELAP	2.00		2.80	µg/L	1	12/22/2011 17:34	73820
Zinc	NELAP	10.0	S	4260	µg/L	1	12/22/2011 17:34	73820
<i>Zn - Sample concentration was greater than 5 times the spike concentration.</i>								
<b>EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)</b>								
Cadmium	NELAP	2.00		3.80	µg/L	1	12/22/2011 21:38	73829
Zinc	NELAP	10.0		4500	µg/L	1	12/22/2011 21:38	73829
<b>STANDARD METHODS 18TH ED. 3030 B, 3113 B, METALS BY GFAA (DISSOLVED)</b>								
Lead	NELAP	2.00	X	12.2	µg/L	1	12/22/2011 15:55	73810
<b>STANDARD METHODS 18TH ED. 3030 E, 3113 B, METALS BY GFAA</b>								
Lead	NELAP	4.00	X	26.0	µg/L	2	12/23/2011 11:53	73807





## Laboratory Results

<http://www.teklabinc.com/>

Client: Barr Engineering Company  
Client Project: Leadwood MTS-25/86-0013  
Lab ID: 11120952-003  
Matrix: AQUEOUS

Work Order: 11120952  
Report Date: 28-Dec-11  
Client Sample ID: LW-Dup  
Collection Date: 12/20/2011 8:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 375.2 REV 2.0 1993 (TOTAL)</b>								
Sulfate	NELAP	10		18	mg/L	1	12/23/2011 15:19	R158144
<b>STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED</b>								
Lab pH	NELAP	1.00		7.92		1	12/21/2011 17:07	R158038
<b>STANDARD METHODS 18TH ED. 2340 C</b>								
Hardness, as ( CaCO <sub>3</sub> )	NELAP	5		300	mg/L	1	12/22/2011 6:45	R158019
<b>STANDARD METHODS 18TH ED. 2540 D</b>								
Total Suspended Solids	NELAP	6		< 6	mg/L	1	12/21/2011 13:40	R158073
<b>STANDARD METHODS 18TH ED. 5310 C, ORGANIC CARBON</b>								
Total Organic Carbon (TOC)	NELAP	1.0		3.5	mg/L	1	12/23/2011 8:07	R158167
<b>EPA 600 4.1.1, 200.7R4.4, METALS BY ICP (DISSOLVED)</b>								
Cadmium	NELAP	2.00		< 2.00	µg/L	1	12/22/2011 18:03	73820
Zinc	NELAP	10.0		< 10.0	µg/L	1	12/22/2011 18:03	73820
<b>EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)</b>								
Cadmium	NELAP	2.00		< 2.00	µg/L	1	12/22/2011 21:55	73829
Zinc	NELAP	10.0		< 10.0	µg/L	1	12/22/2011 21:55	73829
<b>STANDARD METHODS 18TH ED. 3030 B, 3113 B, METALS BY GFAA (DISSOLVED)</b>								
Lead	NELAP	2.00		< 2.00	µg/L	1	12/22/2011 16:05	73810
<b>STANDARD METHODS 18TH ED. 3030 E, 3113 B, METALS BY GFAA</b>								
Lead	NELAP	2.00		< 2.00	µg/L	1	12/23/2011 12:03	73807



## Laboratory Results

<http://www.teklabinc.com/>

Client: Barr Engineering Company  
Client Project: Leadwood MTS-25/86-0013  
Lab ID: 11120952-004  
Matrix: AQUEOUS

Work Order: 11120952  
Report Date: 28-Dec-11

Client Sample ID: LW-DS

Collection Date: 12/20/2011 9:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 375.2 REV 2.0 1993 (TOTAL)</b>								
Sulfate	NELAP	10		27	mg/L	1	12/23/2011 15:22	R158144
<b>STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED</b>								
Lab pH	NELAP	1.00		7.91		1	12/21/2011 17:09	R158038
<b>STANDARD METHODS 18TH ED. 2340 C</b>								
Hardness, as ( CaCO <sub>3</sub> )	NELAP	5		220	mg/L	1	12/22/2011 6:45	R158019
<b>STANDARD METHODS 18TH ED. 2540 D</b>								
Total Suspended Solids	NELAP	6		< 6	mg/L	1	12/21/2011 13:40	R158073
<b>STANDARD METHODS 18TH ED. 5310 C, ORGANIC CARBON</b>								
Total Organic Carbon (TOC)	NELAP	1.0		4.7	mg/L	1	12/23/2011 8:07	R158167
<b>EPA 600 4.1.1, 200.7R4.4, METALS BY ICP (DISSOLVED)</b>								
Cadmium	NELAP	2.00		< 2.00	µg/L	1	12/22/2011 18:09	73820
Zinc	NELAP	10.0		29.0	µg/L	1	12/22/2011 18:09	73820
<b>EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)</b>								
Cadmium	NELAP	2.00		< 2.00	µg/L	1	12/22/2011 22:01	73829
Zinc	NELAP	10.0		33.6	µg/L	1	12/22/2011 22:01	73829
<b>STANDARD METHODS 18TH ED. 3030 B, 3113 B, METALS BY GFAA (DISSOLVED)</b>								
Lead	NELAP	2.00		< 2.00	µg/L	1	12/22/2011 16:09	73810
<b>STANDARD METHODS 18TH ED. 3030 E, 3113 B, METALS BY GFAA</b>								
Lead	NELAP	2.00		< 2.00	µg/L	1	12/23/2011 12:07	73807

Client: Barr Engineering Company  
 Client Project: Leadwood MTS-25/86-0013  
 Lab ID: 11120952-005  
 Matrix: AQUEOUS

Work Order: 11120952  
 Report Date: 28-Dec-11

Client Sample ID: LW-US

Collection Date: 12/20/2011 8:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>EPA 600 375.2 REV 2.0 1993 (TOTAL)</b>								
Sulfate	NELAP	10		18	mg/L	1	12/23/2011 15:25	R158144
<b>STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED</b>								
Lab pH	NELAP	1.00		7.97		1	12/21/2011 17:10	R158038
<b>STANDARD METHODS 18TH ED. 2340 C</b>								
Hardness, as ( CaCO <sub>3</sub> )	NELAP	5		200	mg/L	1	12/22/2011 6:45	R158019
<b>STANDARD METHODS 18TH ED. 2540 D</b>								
Total Suspended Solids	NELAP	6		< 6	mg/L	1	12/21/2011 13:40	R158073
<b>STANDARD METHODS 18TH ED. 5310 C, ORGANIC CARBON</b>								
Total Organic Carbon (TOC)	NELAP	1.0		4.0	mg/L	1	12/23/2011 8:07	R158167
<b>EPA 600 4.1.1, 200.7R4.4, METALS BY ICP (DISSOLVED)</b>								
Cadmium	NELAP	2.00		< 2.00	µg/L	1	12/22/2011 18:14	73820
Zinc	NELAP	10.0		< 10.0	µg/L	1	12/22/2011 18:14	73820
<b>EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)</b>								
Cadmium	NELAP	2.00		< 2.00	µg/L	1	12/22/2011 22:07	73829
Zinc	NELAP	10.0		< 10.0	µg/L	1	12/22/2011 22:07	73829
<b>STANDARD METHODS 18TH ED. 3030 B, 3113 B, METALS BY GFAA (DISSOLVED)</b>								
Lead	NELAP	2.00		< 2.00	µg/L	1	12/22/2011 16:12	73810
<b>STANDARD METHODS 18TH ED. 3030 E, 3113 B, METALS BY GFAA</b>								
Lead	NELAP	2.00		< 2.00	µg/L	1	12/23/2011 12:10	73807



## Sample Summary

<http://www.teklabinc.com/>

**Client:** Barr Engineering Company

**Work Order:** 11120952

**Client Project:** Leadwood MTS-25/86-0013

**Report Date:** 28-Dec-11

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
11120952-001	LW-001	Aqueous	5	12/20/2011 7:00
11120952-002	LW-002	Aqueous	5	12/20/2011 9:25
11120952-003	LW-Dup	Aqueous	5	12/20/2011 8:35
11120952-004	LW-DS	Aqueous	5	12/20/2011 9:00
11120952-005	LW-US	Aqueous	5	12/20/2011 8:25



## Dates Report

<http://www.teklabinco.com/>

Client: Barr Engineering Company

Work Order: 11120952

Client Project: Leadwood MTS-25/86-0013

Report Date: 28-Dec-11

Sample ID	Client Sample ID Test Name	Collection Date	Received Date Prep Date/Time	Analysis Date/Time
11120952-001A	LW-001 Standard Methods 18th Ed. 2540 F	12/20/2011 7:00	12/21/2011 10:00:00 AM	12/21/2011 13:50
11120952-001B	LW-001 EPA 600 375.2 Rev 2.0 1993 (Total) Standard Method 18th Ed. 4500-H B, Laboratory Analyzed Standard Methods 18th Ed. 2340 C Standard Methods 18th Ed. 2540 D	12/20/2011 7:00	12/21/2011 10:00:00 AM	12/22/2011 20:03 12/21/2011 16:33 12/22/2011 6:45 12/21/2011 13:40
11120952-001C	LW-001 EPA 600 4.1.4, 200.7R4.4, Metals by ICP (Total) Standard Methods 18th Ed. 3030 E, 3113 B, Metals by GFAA	12/20/2011 7:00	12/21/2011 10:00:00 AM 12/22/2011 9:16 12/21/2011 14:53	12/22/2011 21:32 12/23/2011 11:43
11120952-001D	LW-001 EPA 600 4.1.1, 200.7R4.4, Metals by ICP (Dissolved) Standard Methods 18th Ed. 3030 B, 3113 B, Metals by GFAA (Dissolved)	12/20/2011 7:00	12/21/2011 10:00:00 AM 12/22/2011 7:52 12/21/2011 15:53	12/22/2011 17:28 12/22/2011 15:45
11120952-001E	LW-001 Standard Methods 18th Ed. 5310 C, Organic Carbon	12/20/2011 7:00	12/21/2011 10:00:00 AM	12/23/2011 8:07
11120952-002A	LW-002 Standard Methods 18th Ed. 2540 F	12/20/2011 9:25	12/21/2011 10:00:00 AM	12/21/2011 13:50
11120952-002B	LW-002 EPA 600 375.2 Rev 2.0 1993 (Total) Standard Method 18th Ed. 4500-H B, Laboratory Analyzed Standard Methods 18th Ed. 2340 C Standard Methods 18th Ed. 2540 D	12/20/2011 9:25	12/21/2011 10:00:00 AM	12/22/2011 15:30 12/21/2011 16:35 12/22/2011 6:45 12/21/2011 13:48
11120952-002C	LW-002 EPA 600 4.1.4, 200.7R4.4, Metals by ICP (Total) Standard Methods 18th Ed. 3030 E, 3113 B, Metals by GFAA	12/20/2011 9:25	12/21/2011 10:00:00 AM 12/22/2011 9:16 12/21/2011 14:53	12/22/2011 21:38 12/23/2011 11:53
11120952-002D	LW-002 EPA 600 4.1.1, 200.7R4.4, Metals by ICP (Dissolved) Standard Methods 18th Ed. 3030 B, 3113 B, Metals by GFAA (Dissolved)	12/20/2011 9:25	12/21/2011 10:00:00 AM 12/22/2011 7:52 12/21/2011 15:53	12/22/2011 17:34 12/22/2011 15:55
11120952-002E	LW-002 Standard Methods 18th Ed. 5310 C, Organic Carbon	12/20/2011 9:25	12/21/2011 10:00:00 AM	12/23/2011 8:07
11120952-003A	LW-Dup Standard Method 18th Ed. 4500-H B, Laboratory Analyzed Standard Methods 18th Ed. 2540 D	12/20/2011 8:35	12/21/2011 10:00:00 AM	12/21/2011 17:07 12/21/2011 13:40
11120952-003B	LW-Dup EPA 600 375.2 Rev 2.0 1993 (Total) Standard Methods 18th Ed. 2340 C	12/20/2011 8:35	12/21/2011 10:00:00 AM	12/23/2011 15:19 12/22/2011 6:45



## Dates Report

<http://www.teklabinc.com/>

Client: Barr Engineering Company

Work Order: 11120952

Client Project: Leadwood MTS-25/86-0013

Report Date: 28-Dec-11

Sample ID	Client Sample ID Test Name	Collection Date	Received Date Prep Date/Time	Analysis Date/Time
11120952-003C	LW-Dup	12/20/2011 8:35	12/21/2011 10:00:00 AM	
	EPA 600 4.1.4, 200.7R4.4, Metals by ICP (Total)		12/22/2011 9:16	12/22/2011 21:55
	Standard Methods 18th Ed. 3030 E, 3113 B, Metals by GFAA		12/21/2011 14:53	12/23/2011 12:03
11120952-003D	LW-Dup	12/20/2011 8:35	12/21/2011 10:00:00 AM	
	EPA 600 4.1.1, 200.7R4.4, Metals by ICP (Dissolved)		12/22/2011 7:52	12/22/2011 18:03
	Standard Methods 18th Ed. 3030 B, 3113 B, Metals by GFAA (Dissolved)		12/21/2011 15:53	12/22/2011 16:05
11120952-003E	LW-Dup	12/20/2011 8:35	12/21/2011 10:00:00 AM	
	Standard Methods 18th Ed. 5310 C, Organic Carbon			12/23/2011 8:07
11120952-004A	LW-DS	12/20/2011 9:00	12/21/2011 10:00:00 AM	
	Standard Method 18th Ed. 4500-H B, Laboratory Analyzed			12/21/2011 17:09
	Standard Methods 18th Ed. 2540 D			12/21/2011 13:40
11120952-004B	LW-DS	12/20/2011 9:00	12/21/2011 10:00:00 AM	
	EPA 600 375.2 Rev 2.0 1993 (Total)			12/23/2011 15:22
	Standard Methods 18th Ed. 2340 C			12/22/2011 6:45
11120952-004C	LW-DS	12/20/2011 9:00	12/21/2011 10:00:00 AM	
	EPA 600 4.1.4, 200.7R4.4, Metals by ICP (Total)		12/22/2011 9:16	12/22/2011 22:01
	Standard Methods 18th Ed. 3030 E, 3113 B, Metals by GFAA		12/21/2011 14:53	12/23/2011 12:07
11120952-004D	LW-DS	12/20/2011 9:00	12/21/2011 10:00:00 AM	
	EPA 600 4.1.1, 200.7R4.4, Metals by ICP (Dissolved)		12/22/2011 7:52	12/22/2011 18:09
	Standard Methods 18th Ed. 3030 B, 3113 B, Metals by GFAA (Dissolved)		12/21/2011 15:53	12/22/2011 16:09
11120952-004E	LW-DS	12/20/2011 9:00	12/21/2011 10:00:00 AM	
	Standard Methods 18th Ed. 5310 C, Organic Carbon			12/23/2011 8:07
11120952-005A	LW-US	12/20/2011 8:25	12/21/2011 10:00:00 AM	
	Standard Method 18th Ed. 4500-H B, Laboratory Analyzed			12/21/2011 17:10
	Standard Methods 18th Ed. 2540 D			12/21/2011 13:40
11120952-005B	LW-US	12/20/2011 8:25	12/21/2011 10:00:00 AM	
	EPA 600 375.2 Rev 2.0 1993 (Total)			12/23/2011 15:25
	Standard Methods 18th Ed. 2340 C			12/22/2011 6:45
11120952-005C	LW-US	12/20/2011 8:25	12/21/2011 10:00:00 AM	
	EPA 600 4.1.4, 200.7R4.4, Metals by ICP (Total)		12/22/2011 9:16	12/22/2011 22:07
	Standard Methods 18th Ed. 3030 E, 3113 B, Metals by GFAA		12/21/2011 14:53	12/23/2011 12:10
11120952-005D	LW-US	12/20/2011 8:25	12/21/2011 10:00:00 AM	
	EPA 600 4.1.1, 200.7R4.4, Metals by ICP (Dissolved)		12/22/2011 7:52	12/22/2011 18:14
	Standard Methods 18th Ed. 3030 B, 3113 B, Metals by GFAA (Dissolved)		12/21/2011 15:53	12/22/2011 16:12
11120952-005E	LW-US	12/20/2011 8:25	12/21/2011 10:00:00 AM	
	Standard Methods 18th Ed. 5310 C, Organic Carbon			12/23/2011 8:07



## Quality Control Results

<http://www.teklabinc.com/>

Client: Barr Engineering Company

Work Order: 11120952

Client Project: Leadwood MTS-25/86-0013

Report Date: 28-Dec-11

### EPA 600 375.2 REV 2.0 1993 (TOTAL)

Batch R158102 SampType: MBLK Units mg/L

SampID: ICB/MBLK

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate	75		< 75						12/22/2011

Batch R158102 SampType: LCS Units mg/L

SampID: ICV/LCS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate	75		146	150	0	97.5	90	110	12/22/2011

Batch R158144 SampType: MBLK Units mg/L

SampID: ICB/MBLK

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate	10		< 10						12/23/2011

Batch R158144 SampType: LCS Units mg/L

SampID: ICV/LCS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate	10		20	20	0	97.8	90	110	12/23/2011

### STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED

Batch R158038 SampType: LCS Units

SampID: LCS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Lab pH	1.00		7.02	7.00	0	100.3	99.1	100.8	12/21/2011

Batch R158038 SampType: DUP Units

SampID: 11120952-001BDUP

RPD Limit 10

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Lab pH	1.00		7.92				7.930	0.13	12/21/2011

Batch R158038 SampType: DUP Units

SampID: 11120952-002BDUP

RPD Limit 10

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Lab pH	1.00		7.82				7.800	0.26	12/21/2011

Batch R158038 SampType: DUP Units

SampID: 11120952-003ADUP

RPD Limit 10

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Lab pH	1.00		7.92				7.920	0.00	12/21/2011

Client: Barr Engineering Company  
 Client Project: Leadwood MTS-25/86-0013

Work Order: 11120952  
 Report Date: 28-Dec-11

## STANDARD METHOD 18TH ED. 4500-H B, LABORATORY ANALYZED

Batch R158038 SampType: DUP		Units		RPD Limit 10				Date Analyzed	
SampleID: 11120952-004ADUP		Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val
		Lab pH	1.00		7.92				7.910
									0.13

Batch R158038 SampType: DUP		Units		RPD Limit 10				Date Analyzed	
SampleID: 11120952-005ADUP		Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val
		Lab pH	1.00		7.94				7.970
									0.38

## STANDARD METHODS 18TH ED. 2340 C

Batch R158019 SampType: MBLK		Units mg/L						Date Analyzed	
SampleID: MB-R158019		Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit
		Hardness, as ( CaCO3 )	5		< 5				12/21/2011

Batch R158019 SampType: LCS		Units mg/L						Date Analyzed	
SampleID: LCS-R158019		Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit
		Hardness, as ( CaCO3 )	5		1000	1000	0	100.0	90
									110

Batch R158019 SampType: MS		Units mg/L						Date Analyzed	
SampleID: 11120952-001BMS		Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit
		Hardness, as ( CaCO3 )	5		860	400	440.0	105.0	85
									115

Batch R158019 SampType: MSD		Units mg/L		RPD Limit 10				Date Analyzed	
SampleID: 11120952-001BMSD		Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val
		Hardness, as ( CaCO3 )	5		860	400	440.0	105.0	860.0
									0.00

## STANDARD METHODS 18TH ED. 2540 D

Batch R158073 SampType: MBLK		Units mg/L						Date Analyzed	
SampleID: MBLK		Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit
		Total Suspended Solids	6		< 6				12/21/2011

Batch R158073 SampType: LCS		Units mg/L						Date Analyzed	
SampleID: LCS		Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit
		Total Suspended Solids	6		100	100	0	100.0	85
		Total Suspended Solids	6		101	100	0	101.0	85
		Total Suspended Solids	6		91	100	0	91.0	85



Client: Barr Engineering Company  
 Client Project: Leadwood MTS-25/86-0013

Work Order: 11120952  
 Report Date: 28-Dec-11

## STANDARD METHODS 18TH ED. 2540 D

Batch R158073 SampType: DUP		Units mg/L		RPD Limit 15				Date Analyzed
SampID: 11120952-001B DUP								
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD
Total Suspended Solids	6	R	6				0	200.00

Batch R158073 SampType: DUP		Units mg/L		RPD Limit 15				Date Analyzed
SampID: 11120952-005A DUP								
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD
Total Suspended Solids	6		< 6				0	0.00

## STANDARD METHODS 18TH ED. 5310 C, ORGANIC CARBON

Batch R158167 SampType: MBLK		Units mg/L						Date Analyzed
SampID: MB-R158167								
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit
Total Organic Carbon (TOC)	1.0		< 1.0					

Batch R158167 SampType: LCS		Units mg/L						Date Analyzed
SampID: LCS-R158167								
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit
Total Organic Carbon (TOC)	5.0		50.8	48.2	0	105.4	89.6	109.5

Batch R158167 SampType: MS		Units mg/L						Date Analyzed
SampID: 11120952-005EMS								
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit
Total Organic Carbon (TOC)	1.0		8.6	5.0	4.040	91.6	80	120

Batch R158167 SampType: MSD		Units mg/L		RPD Limit 15				Date Analyzed
SampID: 11120952-005EMSD								
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD
Total Organic Carbon (TOC)	1.0		8.6	5.0	4.040	90.8	8.620	0.47

## EPA 600 4.1.1, 200.7R4.4, METALS BY ICP (DISSOLVED)

Batch 73820 SampType: MBLK		Units µg/L						Date Analyzed
SampID: MB-73820								
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit
Cadmium	2.00		< 2.00	2.00	0	0	-100	100
Zinc	10.0		< 10.0	10.0	0	0	-100	100

Batch 73820 SampType: LCS		Units µg/L						Date Analyzed
SampID: LCS-73820								
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit
Cadmium	2.00		48.5	50.0	0	97.0	85	115
Zinc	10.0		506	500	0	101.2	85	115

Client: Barr Engineering Company

Work Order: 11120952

Client Project: Leadwood MTS-25/86-0013

Report Date: 28-Dec-11

**EPA 600 4.1.1, 200.7R4.4, METALS BY ICP (DISSOLVED)**

Batch 73820		SampType: MS		Units µg/L					
SampID: 11120952-002DMS									
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cadmium	2.00		48.9	50.0	2.8	92.2	75	125	12/22/2011
Zinc	10.0	S	4600	500	4261	67.4	75	125	12/22/2011

Batch 73820		SampType: MSD		Units µg/L			RPD Limit 20		
SampleID: 11120952-002DMSD									Date Analyzed
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Cadmium	2.00		49.5	50.0	2.8	93.4	48.9	1.22	12/22/2011
Zinc	10.0		4690	500	4261	85.6	4598	1.96	12/22/2011

**EPA 600 4.1.4, 200.7R4.4, METALS BY ICP (TOTAL)**

Batch 73829		SampType: MBLK		Units µg/L					
SampleID: ' MB-73829									
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cadmium	2.00		< 2.00	2.00	0	0	-100	100	12/22/2011
Zinc	10.0		< 10.0	10.0	0	21.0	-100	100	12/22/2011

Batch 73829		SampType: LCS		Units µg/L						
SampID: LCS-73829										
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cadmium	2.00		51.9	50.0	0	103.8	85	115	12/22/2011	
Zinc	10.0		541	500	0	108.2	85	115	12/22/2011	

Batch 73829		SampType: MS		Units µg/L						
SampleID: 11120952-002CMS										Date Analyzed
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Cadmium	2.00		53.9	50.0	3.8	100.2	75	125	12/22/2011	
Zinc	10.0		5080	500	4502	114.6	75	125	12/22/2011	

Batch 73829		SampType: MSD		Units µg/L				RPD Limit 20			
SampleID: 11120952-002CMSD										Date Analyzed	
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Cadmium	2.00		53.9	50.0	3.8	100.2	53.9	0.00	12/22/2011		
Zinc	10.0		5020	500	4502	103.2	5075	1.13	12/22/2011		

**STANDARD METHODS 18TH ED. 3030 B, 3113 B, METALS BY GFAA (DISSOLVED)**

Batch 73810		SampType: MBLK		Units µg/L							
SampleID: MB-73810											Date
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed		
Lead	2.00		< 2.00	2.00	0	0	-100	100	12/22/2011		



## Quality Control Results

<http://www.teklabinc.com/>

Client: Barr Engineering Company  
Client Project: Leadwood MTS-25/86-0013

Work Order: 11120952  
Report Date: 28-Dec-11

### STANDARD METHODS 18TH ED. 3030 B, 3113 B, METALS BY GFAA (DISSOLVED)

Batch 73810		SampType: LCS		Units µg/L							
SampID: LCS-73810											Date Analyzed
Analyses		RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Lead		2.00		13.9	15.0	0	92.4	80	120	12/22/2011	

Batch 73810		SampType: MS		Units µg/L						
SampID: 11120952-001DMS										
Analyses		RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Lead		2.00		17.2	15.0	5.0569	81.2	70	130	12/22/2011

Batch 73810		SampType: MSD		Units µg/L				RPD Limit 20		
SampID: 11120952-001DMSD										
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Lead	2.00		17.2	15.0	5.0569	81.0	17.2375	0.21	12/22/2011	

### STANDARD METHODS 18TH ED. 3030 E, 3113 B, METALS BY GFAA

Batch 73807		SampType: MBLK		Units µg/L						
SampID: MB-73807										
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Lead	2.00		< 2.00	2.00	0	0	-100	100	12/23/2011	

Batch 73807		SampType: LCS		Units µg/L						
SampID: LCS-73807										Date Analyzed
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Lead	2.00		13.3	15.0	0	88.8	80	120	12/23/2011	

Batch 73807		SampType: MS		Units µg/L						
SampID: 11120952-001CMS										
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Lead	4.00		29.8	15.0	17.9556	78.7	70	130	12/23/2011	

Batch 73807		SampType: MSD		Units µg/L				RPD Limit 20			Date Analyzed
SampID: 11120952-001CMSD											
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD			
Lead	4.00		30.4	15.0	17.9556	82.7	29.7576	2.01			



## Receiving Check List

<http://www.teklabinc.com/>

Client: Barr Engineering Company

Work Order: 11120952

Client Project: Leadwood MTS-25/86-0013

Report Date: 28-Dec-11

Carrier: Ricky Schmidt

Received By: TWM

Completed by:

On:

21-Dec-11

Timothy W. Mathis

Reviewed by:

On:

21-Dec-11

Heather A. White

Pages to follow: Chain of custody

1

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 3.4

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☒

NA ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water - at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☒

No ☐

Any No responses must be detailed below or on the COC.

Custody seal(s) intact on shipping container/cooler.



# Teklab Chain of Custody

Pg. 1 of 1

Workorder 11120952

5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618)344-1004 ~ Fax: (618)344-1005

Barr Engineering Co.

Are the samples chilled? ☒ Yes ☐ No with: ☒ Ice ☐ Blue icePreserved in ☒ Lab ☐ Field

1001 Diamond Ridge, Suite 1100

Cooler Temp 3.4 Sampler Chris Schulte

Jefferson City

MO

65109

Leadwood MTS - 25/86-0013

Comments

Invoice to Mark Nations. Results to Allison Olds and Mark Nations, mnations@doerun.com

Matrix is surface water.

Metals = Cd, Pb, Zn

RS  
12/21/11

CUSTODY Saw intake upon pick up

Contact Allison Olds

eMail aolds@barr.com

Phone 573-638-5007

Requested Due Date Standard

Billing/PO Per contract with Doe Run

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	pH	T.S.S.	Sulfate	Settleable Solids	T.O.C.	Total Metals	Dissolved Metals	Hardness				
11120952 001	LW-001	12/20/11 7:00	Unpres 5	Aqueous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
002	LW-002	9:25	Unpres 5	Aqueous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
003	LW-Dup	8:35	Unpres 5	Aqueous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
004	LW-DS	9:00	Unpres 5	Aqueous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
005	LW-US	8:25	Unpres 5	Aqueous	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Unpres	Aqueous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Relinquished By *	Date/Time	Received By	Date/Time
Ch. Olds / Barr	12/20/11 16:00	RS	12/21/11 8:45
R...	12/21/11 10:00	RS	12/21/11 1000

\* The individual signing this agreement on behalf of client acknowledges that they have read and understand the terms of this agreement and that they have the authority to sign on behalf of client.